Supplier - FUNCTIONAL

V-516

Thickener for High Oleic Vegetable Oil Based Lubricants

Viscosity Modifiers

Typical Properties

Specific Gravity	0.910 - 0.920
Density,lbs/gal	7.6
Flash Point,℃(℉)	> 260 (500)
Kinematic Viscosity@100℃,cSt	5000 - 7000
Color	Yellow (< 2ASTM)
Biodegradable Content,%wt	85

Product Description

High oleic vegetable oils are sometimes to be preferred as base stocks for blending oxidation stable hydraulic fluids and lubricants intended for use in environmentally sensitive applications. A drawback, however, is that they are all of a similar light viscosity, only about 40 cSt at 40°C. **FUNCTIONAL V- 516** is a thickener for high oleic vegetable-based oils, to blend lubricants of ISO 46, ISO 68 or ISO 100 viscosity grade. **Functional V-516** does not make the lubricant tacky. Use **FUNCTIONAL V-570** or **FUNCTIONAL V-584** where the tackiness is desired. For lubricants using vegetable oil with normal oleic content **V-515** is recommended.

COMPOSITION:
The active additive in **FUNCTIONAL V-516** is a polymer selected for its shear stability and effectiveness in thickening. This polymer component is itself not readily biodegradable, but permits the viscosity adjustment of lubricants from biodegradable base oil systems. The diluent in **FUNCTIONAL V-516** is a biodegradable vegetable oil. **FUNCTIONAL V-516** is biodegradable under all widely used standards.

HANDLING:
While warming **FUNCTIONAL V-516** to about 65°C (150°F) may facilitate pumping and handling, extended storage of this, or any other vegetable oil-derived product, at elevated temperatures is not recommended. Safe handling precautions are the same as those to be taken with vegetable oils; see the current Material Safety Data Sheet.

Applications	**Suggested Treat Rates, %wt**
Typical (ISO 46)	1.5
General Applicaation (ISO 68)	5.0
Hydraulic Fluids & High-shear Service (ISO 46)	2.0
Hydraulic Fluids & High-shear Service (ISO 68)	6.0

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